

Technical Data Sheet

Polyaxis PD 3000-01G NATURAL



Polypropylene Copolymer

Product Description

Polyaxis PD 3000 is a polypropylene specifically designed for rotational molding. A long term UV package and robust antioxidant system allow this material to be used in a variety of applications.

| | |
|--------------------------|---|
| Processing Method | Rotomolding |
| Forms | Pellets; Powder |
| Appearance | Black; Natural Color |
| Additive | Long Term UV-15 Stabilizer |
| Application | Automotive Under the Hood; Bottles; Containers; High Temperature Applications |

| Typical Properties | Nominal Value | Units | Test Method |
|--|---------------|-------------------|-------------|
| Physical | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 20 | g/10 min | ASTM D1238 |
| Density - Specific Gravity | 0.9 | g/cm ³ | ASTM D792 |
| Mechanical | | | |
| Tensile Strength at Yield, (51 mm/min, Rotational Molded) | 25.9 | MPa | ASTM D638 |
| Environmental Stress Crack Resistance, (Compression Molded, F50, 100% Igepal) | >1000 | hr | ASTM D1693 |
| Flexural Modulus, (Rotational Molded, 1% Secant) | 1290 | MPa | ASTM D790 |
| Tensile Elongation at Break, (51 mm/min, Rotational Molded) | 40 | % | ASTM D638 |
| Impact | | | |
| Impact Strength | | | |
| (23 °C, 6.35 mm, Rotational Molded) | 27 | J | ARM |
| (23 °C, 3.18 mm, Rotational Molded) | 20 | J | ARM |
| Thermal | | | |
| Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm, Rotational Molded) | 49.9 | °C | ASTM D648 |
| Deflection Temperature Under Load Unannealed (66 psi), (Rotational Molded) | 105 | °C | ASTM D648 |